

Title (en)

METHOD AND DEVICE FOR DISCOVERING 2G NEIGHBOUR CELLS AT THE EDGE OF AN AREA COVERED BY A 3G CELL

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ENTDECKUNG VON 2G-NACHBARZELLEN AM RAND EINES VON EINER 3G-ZELLE ABGEDECKTEN BEREICHS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE DÉCOUVERTE DE CELLULES VOISINES 2G AU BORD D'UNE ZONE COUVERTE PAR UNE CELLULE 3G

Publication

EP 2611235 A4 20161214 (EN)

Application

EP 10856298 A 20100827

Priority

CN 2010076424 W 20100827

Abstract (en)

[origin: EP2611235A1] The present invention provides a method and a device for discovering 2nd Generation mobile communication system (2G) neighbour cells at the edge of an area covered by a 3rd Generation mobile communication system (3G) cell, for solving the problem that an automatic and efficient method is currently lacked for identifying and optimizing 2G neighbour cells in the process of performance optimization for 3G network handover. In the present invention, signal strength of 2G cells at each geographical grid in existing 2G network is acquired according to the geographical distribution statistics of Measurement Report (MR) sample points in the deployed 2G network; a system edge, where the 3G cell prepares to initiate the handover of Circuit Switching (CS) and Packet Switching (PS), is acquired through geographical location; and 2G cells, which are most suitable for the handover, are selected by analyzing the distribution of 2G signals at the system edge. Thereby, the existing configuration of 3G-2G neighbour cells is optimized and adjusted, and the success rate of the handover from the 3G network to the 2G network is improved.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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- See also references of WO 2012024845A1

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